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1967 ANNUAL REPORT

PLANT MATERIAL SECTION
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NATIONAL PLANT MATERIALS CENTER
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Beltsville, Maryland

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
NATIONAL PLANT MATERIALS CENTER
AGRICULTURAL RESEARCH CENTER
BELTSVILLE, MARYLAND

ANNUAL REPORT

1967

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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
NATIONAL PLANT MATERIALS CENTER
AGRICULTURAL RESEARCH CENTER
Beltsville, Maryland

PERSONNEL

Robert B. Thornton.....Manager
Frederick B. Gaffney.....Soil Conservationist
Robinson P. Abbott.....Biological Technician
Richard Bradshaw, Jr.....Nursery Worker
Richard C. Russell.....Nursery Worker
Helen M. ChamberlinClerk-Stenographer

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United States Department of Agriculture
Soil Conservation Service
National Plant Materials Center
Beltsville, Maryland

INTRODUCTION

This report covers the operations of the National Plant Materials Center at Beltsville, Maryland for the calendar year 1967. Some of the major functions of the Center are to facilitate the exchange of conservation plant materials with other countries, locate and arrange for importation of specific items or collections, provide the initial increase from collectors' packets, arrange for verification of identity by USDA botanists or by others at the Smithsonian Institution, and to provide specific inoculants for little known species of legumes.

Seeds or other propagules are provided to the other climatically located plant materials centers throughout the United States, with background information, such as origin, soils preference, geographic distribution, chromosome numbers, germination habits, drought tolerance, habit of growth and related items.

Detailed notes on the accessions grown during the report period are on file at the National Plant Materials Center. More detailed information will be made available upon request. Notes on only a few of the more promising accessions are included in this report.

Assembly of new accessions took a decided drop this year, partly due to lack of explorations into areas of the world from which SCS needs new germ plasm. However, from previously received accessions and new accessions, more than 2100 packets of seed went to SCS plant materials centers.

A total of 586 packets of seed of conservation plants went to 28 countries, the heaviest shipments going to Brazil, Chile, Iran, Italy, Mexico, Samoa and Turkey. Interagency shipments totaled 683 packets.

In addition to shipments of seed for conservation plantings on saline-alkaline soils and for arid and semi-arid range and pasture seedings, assemblies were made for specialists to assist in their studies of plant physiology, botany and taxonomy.

USAID representatives were quite high on the list of recipients. Where legumes were included in shipments, arrangements were made to supply the specific inoculants.

An exchange of materials for dune control plantings was made with the Republic of South Africa.

The need for renewal of Foundation seed of Svalof's Sleipner field brome was fulfilled by the purchase of new Foundation stock from the Swedish Seed Association. Distribution of the new seed has been made to the New York and Missouri Plant Materials Centers.

Wildlife food planting trials in the Northeast were assisted by the assembly and shipment of a number of accessions of Panicum miliaceum, Setaria italica and S. magna.

The Pennsylvania Game Commission was instrumental in obtaining for us a good supply of acorns of sawtooth oak (Quercus acutissima).

Assistance was provided to Dr. C. R. Gunn, botanist, NCRB, ARS, in growing a few special Vicia species from which were obtained herbarium specimens and other data pertinent to preparation of a monograph on this genus.

This station was used extensively by the USDA's National Herbarium in obtaining herbarium specimens of grasses, legumes, willows and ground cover plants which filled many of the gaps in their representative files.

DEDICATION OF CRIDER MEMORIAL GARDEN

The Crider Memorial Garden of Conservation Plants at the National Plant Materials Center was dedicated July 7, 1967 by Donald S. Williams, SCS Administrator. The ceremony honored the memory of Dr. Franklin J. Crider, who initiated SCS plant materials work 30 years ago. Miss Dorothy Crider of Los Angeles, Dr. Crider's daughter, was guest of honor. Other speakers on the program were Norman A. Berg, Deputy Administrator for Field Services, SCS, who was master of ceremonies; Joy Hopkins, SCS retiree; and R. B. Thornton, Manager of the National Plant Materials Center.

Among the more than 130 guests at the ceremony were SCS representatives from Maryland, Pennsylvania, New Jersey and New York, as well as representatives of New Crops Research and Forage and Range Research Branches of ARS. Mr. William Hartley, Scientific

Liaison Officer for the Commonwealth of Australia, was also among the guests.

The garden, which contains more than 200 plants developed and tested at SCS Plant Materials Centers throughout the U. S., is used extensively not only by SCS workers, but by students and foreign groups visiting the Agricultural Research Center.

ADDENDA

An article by the Garden Editor of the Washington Star newspaper regarding the NPMC's collection of ground cover plants added to the number of visitations to the center during the year, interested parties being mainly urbanites.

R. B. Thornton, Manager of the National Plant Materials Center was called upon to give lectures on plant materials at the Army-Navy Workshop for Land Management and Conservation held at College Park, Maryland in March 1967 and at the New England Agricultural Chemicals Conference at Concord, New Hampshire in October. Mr. Thornton was also senior author with Dr. J. L. Creech, ARS, of an article in the 1967 Yearbook of Agriculture entitled "Protecting Watercourses with Beauty".

PLANT NOTES

Only a few of the accessions grown at the National Plant Materials Center during 1967 are covered under plant notes, but it was thought that some should be singled out. More detailed performance notes are available for each item.

Of the three accessions of Agrostis planted - A. alba, A. canina, and A. tenuis - the last, PI-290708, had the best seed production and spread.

The tall oatgrass accessions from Hungary matured about the same time. All were good seed producers. There is enough variation in these accessions to permit selection.

A rescuegrass, BN-15861 from Tunisia, kept growing until mid-summer, and made early abundant recovery. Lots of seed produced, but shattering was excessive.

The season usually isn't long enough here for most Chloris gayana accessions, but PI-283227 from Southern Rhodesia matured in late September after attaining a spread of five feet. Others spread more but didn't start making heads until September.

We grew a lot of Dr. Oakes' Eragrostis accessions from South Africa, and are convinced we can come up with selections more palatable than the old standards. Some have little tufts of leaves at the base, others carry their leaves to three feet, and are much broader and

somewhat softer than the usual run.

Anyone who tries Eragrostis suaveolens, PI-310405, had better be ready to fight this prolific weedy annual.

A group of Festuca rubras from various countries varied from distinct bunch to good spreaders. PI-200231 should rate high on spread but not highest in seed production.

There seems to be great variation in Fingerhuthia sesleriaeformis, African fingergrass, in seed production. Yields per rod row varied from 9 grams to 89 grams. There was not as much variation in mature size or leaf height. PI-299970 was the best seed producer.

Of the 36 accessions of Lolium grown only two are worthy of mention - PI-303017 and 303048. Both showed good vigor and good leafiness.

A selection of Phalaris arundinacea, Florida's F-2540, was sent here to try for a seed crop. Plants were very uniform. Not one seed out of any head. Guess this is a single clone of a self-sterile species.

Of the timothy accessions, Dr. Braverman's rust-resistant selection, PI-285540, performed best - the leafiest and the best seed producer. This selection was made at the Geneva, N. Y. Plant Introduction Station.

Two bluegrasses from Sweden should be noted - 'Golf', PI-303054, and 'Gullaker', PI-303055. Both had excellent spread and were good seed producers. Spring and fall recovery on both was good.

Coronilla scorpioides is a winter annual growing from 15 inches to 20 inches high. There are several accessions available in the U.S.A. Probably should be tried as a fire-resistant legume.

Desmodium aparines, BN-11699 out of Mexico, looks like a warm tender perennial. Had a four-foot spread, rooting at the nodes. The flowers must be tripped to get seed set. Won't stand any frost. Had abundant leaves and stems.

Desmodium cinarascens, PI-283691, is a somewhat woody, upright plant to six feet. Flowers during cool period failed to set, but high temperatures in July produced a good seed crop. Nodulation was heavy. Very susceptible to aphids.

Lathyrus articulatus ssp. clymenum - PI-321024 out of Morocco, was a self-fertile winter annual scrambling to 7 feet. Although producing a heavy seed crop, shattering was excessive. Strongly aggressive, it might make a good temporary cover or ground conditioner.

Lotus caucasicus, PI-315449, a perennial from the alpine and sub-alpine areas of European Russia and the Caucasus, is probably cross-pollinated. About five inches high with a twenty-inch spread, it set a little seed from mid-July until October first. Leaves and stems were moderately abundant.

Of the other Lotus species grown, only L. pendunculatus, PI-308037, is worthy of mention. A little slow to start, it had good spread, leaf production and seed set.

Of the winter annual Medicago species tested, which included M. littoralis, M. lupulina, M. orbicularis, M. polymorpha v. vulgaris and M. tuberculata, the one showing good seedling vigor and massive growth with a spread of four feet was PI-314540, M. orbicularis.

Heavy grazing by deer on all Melilotus accessions did not permit very good notes on performance, but seed increase was possible in most cases. Crown rot almost wiped out the unnamed Melilotus sp. from Spain, PI-289668.

Ornithopus compressus. This winter annual found in dry sandy places of southern Europe, western Asia and Syria, should find a place somewhere in conservation plantings. Our accessions form a dense green mat, four to five feet wide when grown singly. Perfectly selfed, it produces an abundance of seed from a segmented pod. The loment range from 165 to 239 per gram. Has a high hard seed content with germination of the loment 15 to 30 percent. Extraction of the legume from the loment is difficult. Does not perform in high lime calcareous soils, preferring slightly acid sites.

Considerable variation was observed between small burnet accessions. Sanguisorba polygama, PI-297958, with white flowers, was quite resistant to crown rot. This genus re-seeds readily and is extensively grazed by deer.

Twenty-six species of Vicia were grown this year, some performing well. The following should be mentioned:

PI-289487	<u>Vicia angustifolia</u>
308107	" <u>lutea laevigata</u>
317185	" <u>peregrina</u>
314504	" <u>sativa</u>

Of the twenty-six species grown, all are annuals except V. acutifolia, V. amurensis, V. dumetorum, V. floridana, V. leavenworthii, V. ocalensis, V. pisiformis, V. sepium and V. tenuifolia.

REIDENTIFICATIONS

1966 - 1967

PI No.	BN No.	Original Identification	Reidentification
163369	5016	<i>Medicago</i> sp.	<i>Medicago polymorpha</i> L.
172277	5610	<i>Indigofera</i> cf. <i>pruinosa</i>	<i>Crotalaria</i> sp.
186283	6286	<i>Astragalus mucronatus</i>	<i>Trigonella coerulea</i> (Desr.) Ser. in DC.
187219	15691	<i>Festuca arundinacea</i>	<i>Festuca elatior</i> L. *
188883	6700	<i>Galactia</i> sp.	<i>Galactia acapulcensis</i> Rose
198102	7497	<i>Vicia</i> sp.	<i>Vicia benghalensis</i> L.
203344	8141	<i>Digitaria pentzii</i>	<i>Digitaria eriantha</i> Steud.
204412	9616	<i>Bromus</i> sp.	<i>Bromus sterilis</i> L.
204642	14096	<i>Vicia sativa</i>	<i>Vicia tenuifolia</i> Roth
206905	12285	<i>Onobrychis</i> sp.	<i>Onobrychis tanaitica</i> Spreng.
208385	18047	<i>Eragrostis chloromelas</i>	<i>Eragrostis curvula</i> (Schrad.) Nees
217039	16241	<i>Buchloe dactyloides</i>	<i>Andropogon scoparius</i> Michx.
219930	10247	<i>Onobrychis</i> sp.	<i>Onobrychis subacaulis</i> Boiss.
220002	9648	<i>Bromus</i> sp.	<i>Bromus lanceolatus</i> Roth
221916	9903	<i>Alopecurus</i> sp.	<i>Alopecurus arundinaceus</i> Poir.
226540	14702	<i>Indigofera</i> sp.	<i>Indigofera hirsuta</i> L.
227377	12279	<i>Onobrychis viciifolia</i>	<i>Onobrychis</i> aff. <i>biebersteinii</i> G. Ser.
229430	9905	<i>Alopecurus</i> sp.	<i>Alopecurus arundinaceus</i> Poir.
229523	9909	<i>Alopecurus</i> sp.	<i>Alopecurus arundinaceus</i> Poir.
230234	15831	<i>Agrostis palustris</i>	<i>Agrostis canina</i> L.
231420	14205	<i>Vicia graminea</i>	<i>Vicia angustifolia</i> L.
234825	15794	<i>Sanguisorba</i> sp.	<i>Sanguisorba muricata</i> (Spach) Focke
234964	15795	<i>Sanguisorba</i> sp.	<i>Sanguisorba muricata</i> (Spach) Focke
237128	8636	<i>Axonopus compressus</i>	<i>Axonopus affinis</i> Chase
243219	15684	<i>Deschampsia</i> sp.	<i>Deschampsia caespitosa</i> (L.) Beauv.
243226	10250	<i>Onobrychis</i> sp.	<i>Onobrychis petraea</i> (Bieb.) Fisch.
243227	10251	<i>Onobrychis</i> sp.	<i>Onobrychis viciifolia</i> vel aff. Scop.
249706	15796	<i>Sanguisorba</i> sp.	<i>Sanguisorba muricata</i> (Spach) Focke
253456	15798	<i>Sanguisorba</i> sp.	<i>Sanguisorba muricata</i> (Spach) Focke
267793	11268	<i>Trifolium repens</i>	<i>Trifolium pauciflorum</i> Urv.
275318	11959	<i>Crotalaria</i> sp.	<i>Crotalaria medicaginea</i> Lamk.
281864	12411	<i>Agropyron sibiricum</i>	<i>Agropyron</i> cf. <i>trachycaulum</i> (Link) Malte
282691	12888	<i>Desmodium</i> sp.	<i>Desmodium cinerascens</i> Gray
283197	12516	<i>Bromus popovii</i>	<i>Bromus</i> cf. <i>riparius</i> Rehm.
283304	6321	<i>Festuca elatior</i>	<i>Festuca arundinacea</i> Schreb.
283314	12626	<i>Festuca orientalis</i>	<i>Festuca arundinacea</i> Schreb.
284472	13423	<i>Vicia</i> sp.	<i>Vicia sativa</i> L.
287878	13719		
thru	thru	<i>Medicago polymorpha</i>	<i>Medicago polymorpha</i> var. <i>vulgaris</i>
287883	13724		(Benth.) Shinnars

*See nomenclature changes

REIDENTIFICATIONS

PI No.	BN No.	Original identification	Reidentification
289483	13838	<i>Vicia angustifolia</i>	<i>Vicia sativa</i> L.
289487	13842	<i>Vicia pannonica</i> v. <i>striata</i>	<i>Vicia angustifolia</i> L.
289644	13882	<i>Agrostis</i> sp.	<i>Agrostis</i> cf. <i>castellana</i> Boiss. & Reut.
289646	13884	<i>Alopecurus pratensis</i> .	<i>Alopecurus arundinaceus</i> Poir.
289681	13919	<i>Vicia</i> sp.	<i>Vicia lutea</i> L.
289682	13920	<i>Vicia</i> sp.	<i>Vicia sativa</i> L.
289683	13921	<i>Vicia</i> sp.	<i>Vicia peregrina</i> L.
289684	13922	<i>Vicia</i> sp.	<i>Vicia peregrina</i> L.
289685	13923	<i>Vicia</i> sp.	<i>Vicia angustifolia</i> L.
289686	13924	<i>Vicia</i> sp.	<i>Vicia lutea</i> L.
289687	13925	<i>Vicia</i> sp.	<i>Vicia peregrina</i> L.
294295	14751	<i>Vicia</i> sp.	<i>Vicia peregrina</i> L.
294296	14752	<i>Vicia narbonensis</i>	<i>V. narbonensis</i> L. forma <i>serratifolia</i> (Jacq.) F.J. Herm.
295697	14829	<i>Eragrostis curvula</i>	<i>Eragrostis lehmanniana</i> Nees
295708	14840	<i>Eragrostis</i> sp.	<i>Eragrostis curvula</i> (Schrad.) Nees
297872	15131	<i>Agropyron intermedium</i>	<i>Agropyron trichophorum</i> (Link) Richt.
297896	15154	<i>Elymus andinus</i>	<i>Agropyron</i> sp.
297960	15218	<i>Sanguisorba</i> sp.	<i>Sanguisorba officinalis</i> L.
297961	15219	<i>Sanguisorba</i> sp.	<i>Sanguisorba muricata</i> (Spach) Focke
299911	16050	<i>Eragrostis chloromelas</i>	<i>Eragrostis curvula</i> (Schrad.) Nees
299943	16075	<i>Eragrostis lehmanniana</i>	<i>Eragrostis curvula</i> (Schrad.) Nees
300039	16102	<i>Panicum coloratum</i>	<i>Panicum stapfianum</i> Fourc.
300114	15514	<i>Setaria</i> sp.	<i>Pennisetum setaceum</i> (Forsk.) Chiov.
300147	16143	<i>Trifolium burchellianum</i>	<i>Trifolium repens</i> L.
304751	18146	<i>Pennisetum</i> sp.	<i>Pennisetum purpureum</i> Schumach.
308020	16342	<i>Lathyrus davidii</i>	<i>Vicia amurensis</i> Oett.
308054	16376	<i>Medicago cuneata</i>	<i>Medicago orbicularis</i> (L.) Bart.
308055	16377	<i>Medicago decadollei</i>	<i>Medicago rigidula</i> (L.) All.
308061	16383	<i>Medicago rugosa</i>	<i>Medicago noeana</i> Boiss.
308092	16414	<i>Trifolium</i> sp.	<i>Trifolium dubium</i> Sibth.
308093	16415	<i>Vicia amphicarpa</i>	<i>Vicia sativa</i> L.
308094	16416	<i>Vicia amphicarpa</i>	<i>Vicia amurensis</i> Oett.
308097	16419	<i>Vicia biflora</i>	<i>Vicia monantha</i> Retz.
308110	16432	<i>Vicia monantha</i>	<i>Vicia lutea</i> L.
308111	16433	<i>Vicia nana</i>	<i>Vicia sativa</i> L.
308112	16434	<i>Vicia narbonensis</i>	<i>Vicia sativa</i> L.
308114	16436	<i>Vicia onobrychioides</i>	<i>Vicia angustifolia</i> L.
308115	16437	<i>Vicia pannonica</i>	<i>Vicia disperma</i> DC.
308124	16446	<i>Vicia</i> sp.	<i>Vicia lutea</i> L.
308125	16447	<i>Vicia</i> sp.	<i>Vicia tenuifolia</i> Roth
308126	16448	<i>Vicia</i> sp.	<i>Vicia sativa</i> f. <i>albiflora</i> Freyn.
308127	16449	<i>Vicia</i> sp.	<i>Vicia sativa</i> L.
309954	16533	<i>Bothriochloa</i> sp.	<i>Bothriochloa saccharoides</i> (Sw.) Rydb.

REIDENTIFICATIONS

PI No.	BN No.	Original identification	Reidentification
309975	16550	Chloris sp.	Chloris uliginosa Hack.
309976	16551	Chloris sp.	Chloris distichophylla Lag.
309979	16554	Chloris sp.	Chloris distichophylla Lag.
309980	16555	Chloris sp.	Chloris distichophylla Lag.
309981	16556	Chloris sp.	Chloris polydactyla (L.) Sw.
309982	16557	Chloris sp.	Chloris distichophylla Lag.
309985	16560	Chloris sp.	Chloris polydactyla (L.) Sw.
310030	16597	Panicum sp.	Sporobolus pyramidalis Beauv.
310032	16599	Panicum sp.	Eriochloa punctata (L.) Desv.
310039	16606	Panicum sp.	Paspalum coryphaeum Trin.
310040	16607	Panicum sp.	Panicum maximum Jacq.
310041	16608	Panicum sp.	Eriochloa punctata (L.) Desv.
310287	16854	Paspalum sp.	Paspalum cf. plicatulum Michx.
310288	16855	Paspalum sp.	Paspalum cf. rojasii Hack.
310290	16857	Paspalum sp.	Paspalum cf. rojasii Hack.
310405	16923	Eragrostis sp.	Eragrostis cf. suaveolens Becker
311427	16996	Lotus corniculatus	Lotus aff. decumbens Poir.
311466	17056	Onobrychis matritensis	Onobrychis argentea Boiss.
312482	17132	Vicia variabilis	Vicia sativa L.
314155	17387	Lathyrus sp.	Vicia peregrina L.
314229	17416	Bromus sp.	Bromus scoparius L.
314230	17417	Bromus sp.	Bromus japonicus Thunb.
314231	17418	Bromus sp.	Bromus japonicus Thunb.
314232	17419	Bromus sp.	Bromus oxydon Schrenk
314259	17431	Lathyrus sp.	Lathyrus inconspicuus L.
314260	17432	Lathyrus sp.	Vicia michauxii Spreng.
314350	17450	Vicia sp.	Vicia cracca L.
314384	17465	Medicago sp.	Medicago aff. sativa L.
314502	17497	Vicia lutea	Vicia peregrina L.
314504	17909	Vicia sp.	Vicia sativa L.
314513	17499	Bromus inermis	Bromus riparius Rehm.
314514	17500	Bromus inermis	Bromus riparius Rehm.
314515	17501	Bromus inermis	Bromus riparius Rehm.
314612	17533	Agropyron sp.	Agropyron caninum (L.) Beauv.
314615	17535	Agropyron sp.	Agropyron caninum (L.) Beauv.
314616	17536	Agropyron sp.	Agropyron cf. caninum (L.) Beauv.
314628	17538	Agropyron sp.	Agropyron cf. caninum (L.) Beauv.
314629	17539	Agropyron sp.	Agropyron caninum (L.) Beauv.
314635	17542	Agrostis sp.	Poa sterilis Bieb.
314674	17555	Elymus sp.	Elymus dahuricus Turcz.
314936	17488	Trifolium pratense	Trifolium repens L.
315398	17629	Bromus sp.	Bromus inermis Leyss.
315678	7992	Bromus sp.	Bromus erectus Huds.
315868	17705	Pennisetum sp.	Cenchrus ciliaris L.
316270	17807	Lotus corniculatus	Lotus tenuis Kit.

REIDENTIFICATIONS

PI No.	BN No.	Original Identification	Reidentification
316319	17849	Phalaris (hybrid)	Phalaris aquatica L.
316320	17850	Phalaris (hybrid)	Phalaris aquatica L.
317185	17912	Vicia sp.	Vicia peregrina L.
321024	18201	Lathyrus sp.	Lathyrus articulatus L. var clymenum (Bris.) Mairi
324463	15606	Alopecurus sp.	Alopecurus arundinaceus Poir.
324464	15615	Phalaris sp.	Phalaris aquatica L.
Mich.654	17100	Sanguisorba annua*	Sanguisorba minor Scop.

The following nomenclature changes have recently been authorized by taxonomists of the New Crops Research Branch:

OLD NAME	NEW NAME
Elymus philadelphicus L.	Elymus canadensis L.
Festuca elatior L.	Festuca pratensis Huds.
Festuca orientalis Kern.	Festuca arundinacea Schreb.
Glycine javanica and/or Pueraria montana	Glycine wightii (R.Grah. ex Wight & Arn.) Verdcourt
Kennedya	Kennedia
Roegneria angustiglumis (Nevski) Nevski	Agropyron mutabile Drobov
Roegneria canina (L.) Nevski	Agropyron caninum (L.) Beauv.
Roegneria fibrosa (Schrenk) Nevski	Agropyron fibrosum Nevski
Roegneria trachycaulon (Link) Nevski	Agropyron trachycaulum (Link) Malte
Sanguisorba dictyocarpa Franch.	Poterium sanguisorba L.

*Reidentification made by Smithsonian Institution.

National Plant Materials Center
Domestic Distribution of Seed in 1967

Genera	Number of Packets Distributed to:			
	North- east	Mid- west	South- east	West
Adesmia.....			1	1
Aeluropus.....	3			
Aeschynomene.....			6	
Agropyron.....	3	5		31
Agrostis.....			1	1
Alopecurus.....	3	1	1	8
Alysicarpus.....			1	
Amorpha.....	1			
Andropogon.....			1	
Anthoxanthum.....				2
Arachis.....			2	
Argyrolobium.....			1	2
Aristida.....				6
Arrhenatherum.....	6	10		5
Astragalus.....		2	1	33
Atylosia.....			1	
Bothriochloa.....	1		2	
Bouteloua.....	3			
Brachiaria.....			1	1
Bromus.....	1	3	4	42
Cajanus.....			2	1
Calopogonium.....			6	1
Canavalia.....			1	2
Cassia.....			16	6
Cenchrus.....	1		53	74
Centrosema.....			25	1
Cerastium.....	3	3		
Chloris.....	1		24	8
Clitoria.....			6	1
Coronilla.....	2	19		
Crepis.....				1
Crotalaria.....			34	
Dactylis.....				
Desmanthus.....			1	
Desmodium.....			90	3
Dichanthium.....			1	
Digitaria.....			7	5
Dioclea.....			3	
Dolichos.....			13	41
Echinochloa.....			3	

National Plant Materials Center
Domestic Distribution of Seed in 1967

Genera	Number of Packets Distributed to:			
	North- east	Mid- West	South- east	West
Ehrharta.....				4
Elaeagnus.....		1		
Elymus.....	3	2	1	4
Enteropogon.....				1
Eragrostis.....	44		109	79
Erianthus.....	5			
Eriochloa.....			1	
Eriosema.....			4	2
Eurotia.....			2	
Festuca.....	12	15	6	16
Fingerhuthia.....				3
Galactia.....			1	
Glycine.....			10	7
Hedysarum.....				4
Hippocrepis.....				6
Hordeum.....			1	4
Hymenocarpus.....				1
Hyparrhenia.....				19
Indigofera.....			11	3
Kochia.....			1	
Koeleria.....				7
Lathyrus.....			6	10
Lespedeza.....	38		18	
Leucaena.....			2	2
Liriope.....	1	1		
Listia.....				1
Lolium.....	1	1	1	9
Lotononis.....			1	2
Lotus.....	21	13	11	28
Lupinus.....			27	1
Medicago.....	8		12	38
Melilotus.....			5	7
Ononis.....				1
Oryzopsis.....				3
Panicum.....	45		33	11
Paspalum.....			15	9
Pennisetum.....				4
Periandra.....			1	
Phalaris.....	30	4	29	99
Phaseolus.....			30	
Phleum.....	2	1		
Poa.....	8	5		6

National Plant Materials Center
Domestic Distribution of Seed in 1967

Genera	Number of Packets Distributed to:			
	North- east	Mid- west	South- east	West
Potentilla.....	3	3		
Pueraria.....			1	1
Quercus.....			1	
Rhynchosia.....			14	
Roegneria.....				3
Sanguisorba.....	2			25
Secale.....	1			
Sedum.....	1	1		
Sesbania.....			4	
Sesleria.....				1
Setaria.....	43		2	
Sorghum.....			3	1
Sporobolus.....			1	3
Stipa.....			1	2
Stylosanthes.....			11	16
Teramnus.....			10	
Tetrachne.....				4
Tetrapogon.....			2	1
Trifolium.....	26	17	15	98
Trigonella.....	1			
Urochloa.....	1		3	1
Vicia.....	2		8	4
Zornia.....			5	
Zoysia.....		1		
TOTALS.....	359	172	723	864

Total Genera: 104
Total Packets: 2118

National Plant Materials Center

Domestic Distribution of Vegetative Material in 1966-1967

BN No.	Species	Type and Amount of Material
9026	<i>Ammophila breviligulata</i>	15,200 culms
9871	<i>Carex kobomugi</i>	16 plants
11537	<i>Carex kobomugi</i>	100 plants
8299	<i>Castanea mollissima</i>	275 plants
----	<i>Cornus florida</i>	57 plants
14626	<i>Cornus mas</i>	59 plants
14627	<i>Cornus officinalis</i>	59 plants
4158	<i>Cynodon dactylon</i> 'Tufcote' bermudagrass	1-1/3 sq. yds. sod
"	" " " " "	11 bu. sprigs
16042	<i>Dactyloctenium australe</i>	1 sq. ft.
14518	<i>Elaeagnus umbellata</i>	2 plants
15989	<i>Eremochloa ophiuroides</i> 'Oklawn'	11 sq. ft.
8009	<i>Erianthus ravennae</i>	1830 plants
10781	<i>Gypsophila repens</i> 'Rosea'	2 sq. ft. plants
10782	<i>Liriope graminifolia</i>	65 plants
11069	<i>Liriope spicata</i> 'Wonder Evergreen'	165 plants
12906	<i>Lonicera pileata</i> v. <i>yunnanensis</i> 1-0 stock	24
13631	<i>Miscanthus sinensis</i> PI-286483	rod row plants
13500	<i>Pachistima canbyi</i>	39 cuttings
8553	<i>Panicum amarum</i>	2600 rhizomes
10581	<i>Panicum amarum</i>	400 culms
"	" " "	3000 rhizomes
18146	<i>Pennisetum purpureum</i> PI-304751	7 pieces of 1 clone
9694	<i>Phalaris arundinacea</i>	rod row plants
9697	<i>Phalaris arundinacea</i>	rod row plants
15068	<i>Phalaris arundinacea</i>	rod row plants
14638	<i>Quercus acutissima</i> 1-1 stock	5
10352	<i>Quercus pumila</i>	1610 plants
10784	<i>Rosa virginiana</i>	300 plants
-----	<i>Salix</i> spp. (15 whips ea. of 75 accessions)	1125 whips
11057	<i>Teucrium chamaedrys</i>	18 cuttings
144	<i>Tripsacum dactyloides</i>	8000 plants
-----	<i>Vinca minor</i>	20 plants
8120	<i>Zoysia japonica</i> 'Z-73'	155 sq. ft.

BULK SEED SHIPMENTS

1967

BN No.	Species	Amount
9745	Cassia fasciculata	1/4 lb.
8094	Coronilla varia 'Penngift'	4 lbs.
8379	Lespedeza bicolor 'Natob'	25 lbs.
----	Lespedeza cuneata (commercial)	4 lbs.
9249	Lespedeza cuneata	1 lb. 7 oz.
10401	Lespedeza cuneata	2 lbs. 3 oz.
10403	Lespedeza cuneata	1 lb. 6 oz.
10849	Lespedeza cuneata	11 oz.
11400	Lespedeza cuneata	1 lb. 6 oz.
12112	Lespedeza cuneata	1 b. 2 $\frac{1}{2}$ oz.
13648	Lespedeza cuneata	2 lbs.
13649	Lespedeza cuneata	2 lbs 4 oz.
3532	Lespedeza japonica intermedia	15 lbs.
8360	Panicum amarulum	132 $\frac{1}{2}$ lbs.
8624	Panicum virgatum 'Carthage'	6 $\frac{1}{2}$ lbs.
3490	Quercus acutissima PI-78658	117 lbs.
9017	Sanguisorba minor	3 lbs.
144	Tripsacum dactyloides	1 $\frac{1}{2}$ lbs.
----	Vicia cracca FC-32992	3 lbs.

